

DREWS, Roman

The problem of bronchial fistula (surgeon's viewpoint). Postępy hig.  
med. dosw. no.2:76-80 '60.

1. Z II Kliniki Chirurgicznej Akademii Medycznej w Poznaniu Kierownik:  
prof. dr Roman Drews.

(PNEUMONECTOMY compl) (BRONCHIAL FISTULA etiol)

DREWS, Roman, GRACZYKOWSKA-KOCZOROWSKA, Alicja; KOSOWICZ, Jerzy

Surgical therapy of Cushing's syndrome. Polski tygod.lek. 15  
no.29:1117-1120 18 J1 '60.

1. Z II Kliniki Chirurgicznej A.M. w Poznaniu; kierownik prof.  
dr Roman Drows i z II Kliniki Chorob Wewnętrznych A.M. w  
Poznaniu; kierownik; prof. dr Jan Roguski  
(CUSHING SYNDROME surg)

DREWS, Roman

A brief outline of history of surgery in Wielkopolska. Polski  
przegl.chir. 32 no.8/9:785-793 '60.  
(SURGERY hist)

DREWS, Roman

On a possible surgical intervention after traumatic avulsion of the main bronchus. Polski przegl.chir. 32 no.8/9:871-878 '60.

1. Z II Kliniki Chirurgicznej A.M. w Poznaniu Kierownik:  
prof. dr R.Drews.  
(BRONCHI wds & inj)

DREWS, Roman; FIBAK, Jan

Control studies in surgical therapy of funnel chest. Polski  
przegl. chir. 33 no.2:133-139 '61.

1. Z II Kliniki Chirurgicznej AM w Poznaniu Kierownik: prof. dr  
R. Drows.

(THORAX abnorm)

DREWS, Roman; FIBAK, Jan

A new stand for surgical traction of funnel chest. Polski przegl.  
chir. 33 no.2:141-143 '61.

1. Z II Kliniki Chirurgicznej AM w Poznaniu Kierownik: prof.  
dr R. Drows.

(THORAX abnorm)

DREWS, Roman

Treatment of esophageal varices after splenectomy. Polski przegl.  
chir. 33 no.4:309-316 '61.

1. Z II Kliniki Chirurgicznej A.M. w Poznaniu Kierownik: prof. dr  
R.Drews.

(ESOPHAGEAL VARICES surg) (SPLEEN surg)

DREWS, Roman

Treatment of cancer of the stomach. Polski przegl. chir. 33 no. 7/9:  
671-684 '61.

(STOMACH NEOPLASMS surg)

DREWS, Roman

Reconstructive procedures on the biliary tract. Polski przegl. chir.  
33 no.11:1219-1227 '61.

1. Z II Kliniki Chirurgicznej AM w Poznaniu Kierownik: prof. dr  
R.Drews.

(BILARY TRACT surg)

DREWS, Roman; FIBAK, Jan

Surgical therapy of pectus gallinatum. Pol. przegl. chir. 34 no.8:  
757-762 '62.

1. Z II Kliniki Chirurgicznej AM w Poznaniu Kierownik: prof. dr  
R. Drows.

(THORACIC DISEASES)

DREWS, Roman

Differential diagnosis of tumors of the right phrenocardial angle.  
Cas. lek. cesk. 101 no.23:713-715 8 Je '62.

1. II chirurgická klinika Lékařské akademie v Poznani, reditel prof.  
dr. R. Drews.

(PERICARDIUM neopl) (DIAPHRAGM neopl)

DREWS, R.

In memoriam, Prof. Dr. Antoni Jurasz. Polski przegl. chir. 34  
no.3:193-198 '69.  
(OBITUARIES)

DREWS, Roman

Neutral goiters. Polski przegl. chir. 35 no.9:896-905 '63.

\*

DREWS, Roman; WOJTOWICZ, Mieczyslaw.

Surgical treatment of Graves-Basedow disease. Polski przegl.  
chir. 35 no.9:915-918 '63.

1. Z II Kliniki Chirurgicznej AM w Poznaniu. Kierownik: prof.  
dr. R.Drews.

\*

DREWS, Roman; KOSOWICZ, Jerzy; WOJTOWICZ, Mieczyslaw.

2 cases of malignant hypertension treated with bilateral total adrenalectomy. Polski przegl. chir. 35 no.9:994-996 '63.

1. Z II Kliniki Chirurgicznej AM w Poznaniu(kierownik: prof. dr.R.Drewns) i z II Kliniki Chorob Wewnętrznych AM w Poznaniu (kierownik: prof. dr. J.Roguski).

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DREWS, Roman; KOSWICZ, Jerzy; GRACZYKOWSKA-KOCZOROWSKA, Alicja

Remote results of surgical therapy of Cushing's syndrome.  
Polski przegl. chir. 35 no.9:1002-1004 '63.

1. Z II Kliniki Chirurgicznej AM w Poznaniu. (kierownik:  
prof. dr. R.Drewns) i z II Kliniki Chorob Wewnętrznych AM  
w Poznaniu (kierownik: prof. dr. J.Roguski).

\*

STOLZMANN, Zdzislaw; FILIPEK-WENDER, Helena; KARON, Halina; DREWS, Roman

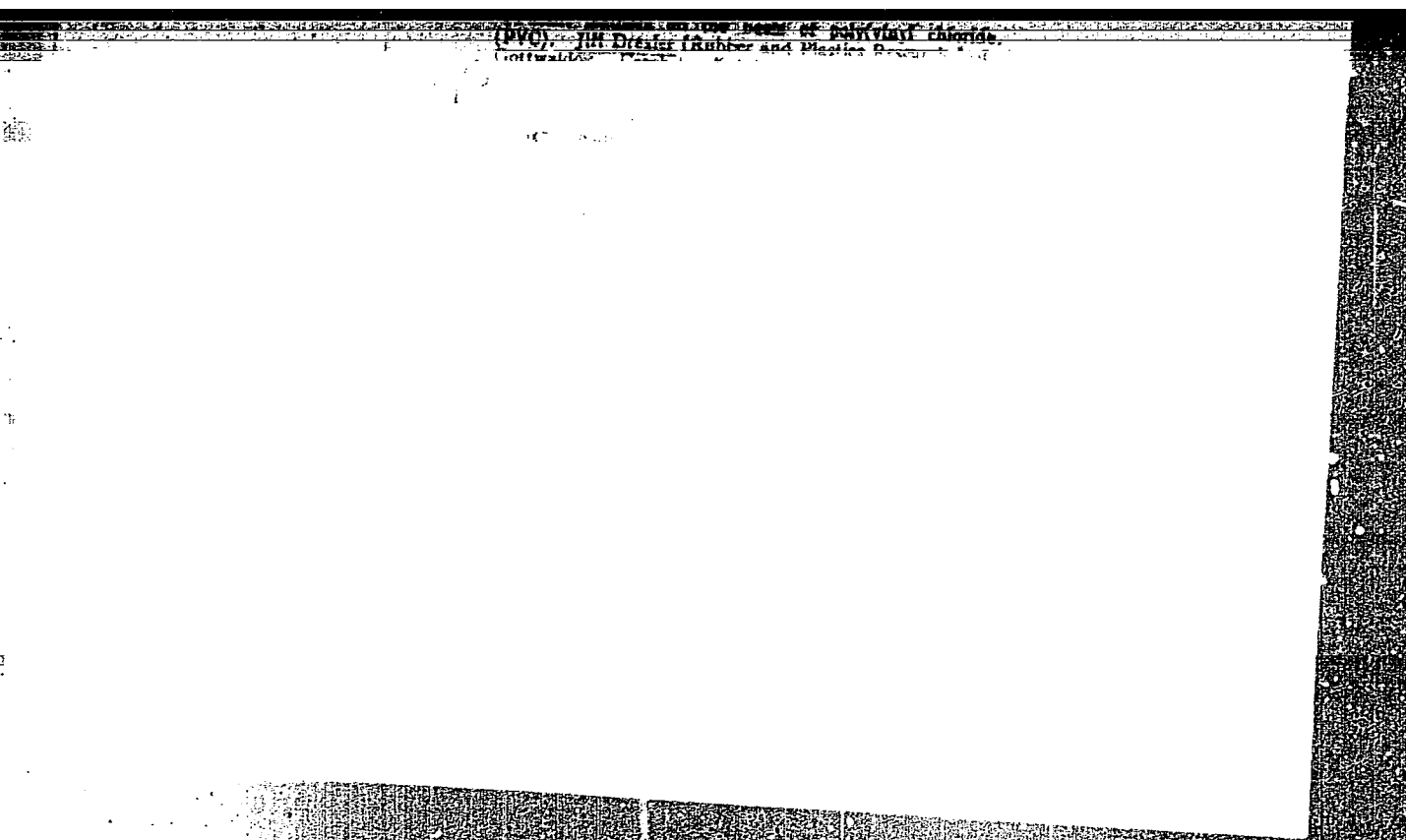
The effect of hypophysectomy upon the composition and rate of regeneration of serum proteins in dogs following plasmapheresis. Acta physiol. Pol. 15 no.2:205-214 Mr-Apr '64.

1. Z Zakladu Chemii Fizjologicznej Akademii Medycznej w Poznaniu (Kierownik: prof. dr Z. Stolzmann) i Z II Kliniki Chirurgicznej Akademii Medycznej w Poznaniu (Kierownik: prof. dr R. Drews).

DREWS, Roman

Benign tumors of the esophagus. Pol. przegl. chir. 37 no.10:  
941-946 0 '65.

1. Z II Kliniki Chirurgicznej AM w Poznaniu (Kierownik: prof.  
dr. R. Drews).



DREXLER, J.

"Patent PVC leathers."

p. 143 (Kozarstvi) Vol. 6, no. 8, Aug. 1956  
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,  
April 1958

DREXLER, Josef, MUDr

Outpatient service of the nationalized plant Ocní Optika. Prakt.  
lek., Praha, 35 no.3:67-68 5 Feb 55

1. OUNZ Karvina, ocní odd.  
(INDUSTRIAL HYGIENE  
in Czech., ambulant ophtalmol. serv.)  
(EYE, diseases  
ther., ambulant serv. in indust. in Czech.)

DREXLER

"Some Information on Meteorology; Theoretical Instruction for Amateur Groups". p. 66  
(KRIDLA VLASTI, No. 3, February 1954, Praha, Czechoslovakia).

SO: Monthly List of East European Accessions, IG, Vol. 3, No. 5, May 1954, Unclassified.

DREXLER

"Fighter Planes" (To be contd.) p. 67 (KRIDLÁ VLASTI, no. 3, February 1954, Praha, Czechoslovakia).

80: Monthly List of East European Accessions, LC, Vol. 3, No. 5, May 1954, Unclassified

DREXLER, J.

"Training in meteorology of young model builders. "

p. 252 (Letecky Modelar) Vol. 8, no. 12, Dec. 1957  
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. vol. 7, no. 4,  
April 1958

DREXLER, J.

"Meteorological training of model builders."

p. 270 (Letecký Modelář) Vol. 8, no. 12, Dec. 1957  
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,  
April 1958

15 7150 2209, 1436, 2808

Z/009/61/000<sup>23061</sup>/006/001/002  
E112/E135

AUTHORS: Jurosz, J., Jelinek, O., and Drexler, J.

TITLE: Plasticizer effect on the viscosity of PVC-Plastisols

PERIODICAL: Chemický průmysl, 1961, No.6, pp. 321-324

TEXT: The properties of plastisols are almost exclusively dependent on the characteristics of their two main components, i.e. polymer and plasticizer, the latter exerting its influence by its own viscosity, solvent action and concentration, while the former alters the properties of the plastisols by the effects of particle size, surface characteristics and cooperative phenomena. The present paper reports the effects of plasticizer properties on the flow behaviour of polyvinylchloride plastisols. Three types of emulsion-polymerized polyvinylchloride were used to prepare the plastisols: 1) PCU-G, Bunawerke, East Germany, K = 71; 2) Lonza CH-5, Lonza A.G., Basle, K = 70; 3) Vestolit G, Chemische Werke Huels, West Germany, K = 71. The following plasticizers were studied: dibutylphthalate, dioctylphthalate, ED-242, Mesamoll, Intermoll and dioctyladipate. Plasticizer content in the plastisol formulation amounted to 50% by weight and changes in plastisol viscosity were followed for 12 days. In order to eliminate the

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Plasticizer effect on the viscosity of PVC-Plastisols  
effect of plasticizer viscosity on the plastisol, values of  
relative viscosities were used for the interpretation of results,  
given by;

$$\text{relative viscosity } (\eta_{\text{rel}}) = \frac{\text{viscosity of plastisol}}{\text{viscosity of pure plasticizer}}$$

The solvent action of the plasticizers was expressed by means of the critical temperature of solution, determined by a modification of the Thinius procedure (Ref.15: Chem. Techn. 4, 471, 1952). The values for the critical heats of solution were related to the relative viscosities of the plastisols after 7 days storage. Variations in plastisol viscosity with plasticizer content were studied specifically with Lonza CH-5, using dioctylphthalate, ED-242 and Intermoll. In order to facilitate the interpretation of concentration effects on the viscosity, the usual weight ratios were replaced by volume fractions (volume of polymer in volume of plasticizer,  $\phi_2$ ). The effects of plasticizers at elevated temperatures on viscosity were also studied. Results are as follows. 1) Curves of the variation of relative viscosity with Card 2/5

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E112/E135

# Plasticizer effect on the viscosity of PVC-Plastisols

time are given in the paper for the resin Lonza CH-5, using the previously listed plasticizers. With the exception of dibutylphthalate, the curves show very little differentiation, indicating that the resulting viscosity of the plastisol is dictated foremost by the viscosity of the plasticizer. 2) The properties of the resin were shown to affect the flow behaviour of the plastisols only during the initial stages (by particle shape, particle size distribution, etc). Differences were not significant after reaching equilibrium (after about 4 days). 3) The effects of critical temperature of solution (CTS) upon relative viscosity were shown to be insignificant with plasticizers of CTS above 120°C while plasticizers with lower values exerted a strong influence. 4) Curves of the variation of relative viscosity ( $\eta_{rel}$ ) of the plastisol with resin content (in volume) indicate an exponential dependence. A linear relation is therefore proposed between  $\log \eta_{rel}$  and  $\phi_2$  over a range of concentration ratios of  $\phi_2 = 0.4-0.5$ . This simple relation can be utilized to compute the viscosities of plastisols based on identical plasticizers

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Plasticizer effect on the viscosity of PVC-Plastisols  
according to the equation:

$$\log \eta_{rel\ x} = \log \eta_{rel\ AB} \cdot \frac{\Phi_{2\ x} - \Phi_{2\ B}}{\Phi_{2\ A} - \Phi_{2\ B}} + \log \eta_{rel\ B} \quad (2)$$

where:  $\log \eta_{rel\ x}$  = value of viscosity to be determined;  
 $\log \eta_{rel\ AB}$  = difference between  $\log \eta_{rel}$  at two different concentrations (A, B);  $\Phi_{2\ x} - \Phi_{2\ B}$  = differences between volume fractions of the polymer of concentrations B and x.  
 Computed values showed very good agreement with practical results.  
 5) Comparisons of different plasticizers at elevated temperatures indicated maximum effects with dioctylphthalate and ED-242, followed by dioctyladipate and Intermoll; however, differences were detected in the behaviour of the various resins, with plastisols from polyvinylchloride PCU-G showing considerably higher viscosities than Vestolit G. Differences are explained by differences of particle size and surface characteristics of the resins. The temperature at which the plastisols reach maximum viscosity is identical with the critical heat of solution of Card 4/5 the plasticizer.

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E112/E135

Plasticizer effect on the viscosity of PVC-Plastisols

There are 8 figures, 2 tables and 15 references: 2 Soviet-bloc and 13 non-Soviet-bloc. The four most recent English-language references read as follows;

Ref.3: H. Jones, J. Soc. Chem. Ind., 67, 415, 1948.

Ref.4: W. Aiken, T. Alfrey, A. Jansen and H. Mark.  
J. Polymer Sci., 2, 178, 1947.

Ref.6: M.C. Reed, L. Connor. Ind. Eng. Chem., 40, 1414, 1948.

Ref.7: M.C. Reed, J. Harding. Ind. Eng. Chem., 41, 675, 1949.

ASSOCIATION: Výzkumný ústav gumárenské a plastikářské technologie,  
Gottwaldov  
(Research Institute of Rubber and Plastics Technology,  
Gottwaldov)

SUBMITTED: August 30, 1960

Card 5/5

KLABOCH, L., inz.; DUFEK, Jaroslav, inz.; HAJEK, E., doc., inz.; REZNICEK, I., inz.; ROD, F., inz.; DRDA, J., inz.; MATOUSEK, B., inz.; KOUSAL, P., inz.; MANDA, V.; CAIS, O., inz.; NOVAK, S.; URBAN, S.; HANKE, M., inz.; VOKURKA, V., inz.; FOGL, J., inz.; HROMIR, M., inz.; SOLIN, J., prof., inz.; SLEZAK, A., inz.; TITLBACH, Z., inz.; DREXLER, J., inz.; HORNÁ, O., inz.; KUPEC, J., inz.

Discussion on tensiometry. Zpravodaj VZLU no.2:37-46, 69-80 '62.

1. Vyzkumny a skusebni letecky ustav (for Dufek, Reznicek, Manda, Cais, Drexler and Kupec). 2. Statni vyzkumny ustav tepelne techniky (for Klaboch, Rod, Drda, Matousek, Titlbach). 3. Ceske vysoke uceni technicke (for Hajek, Solin). 4. Ustav pro vyzkum motorovych vozidel (for Hanke, Vokurka, Fogl, Hromir). 5. Vyzkumny ustav matematickych stroju (for Horna). 6. Moravan, n.p., Otrokovice (for Kousal). 7. Mikrotechna, Holesovice (for Novak). 8. Zavody V.I.Lenina (for Urban). 9. Svermovy zavody, Vyzkumny ustav (for Slezak).

DREML, M.: SPACEK, A.

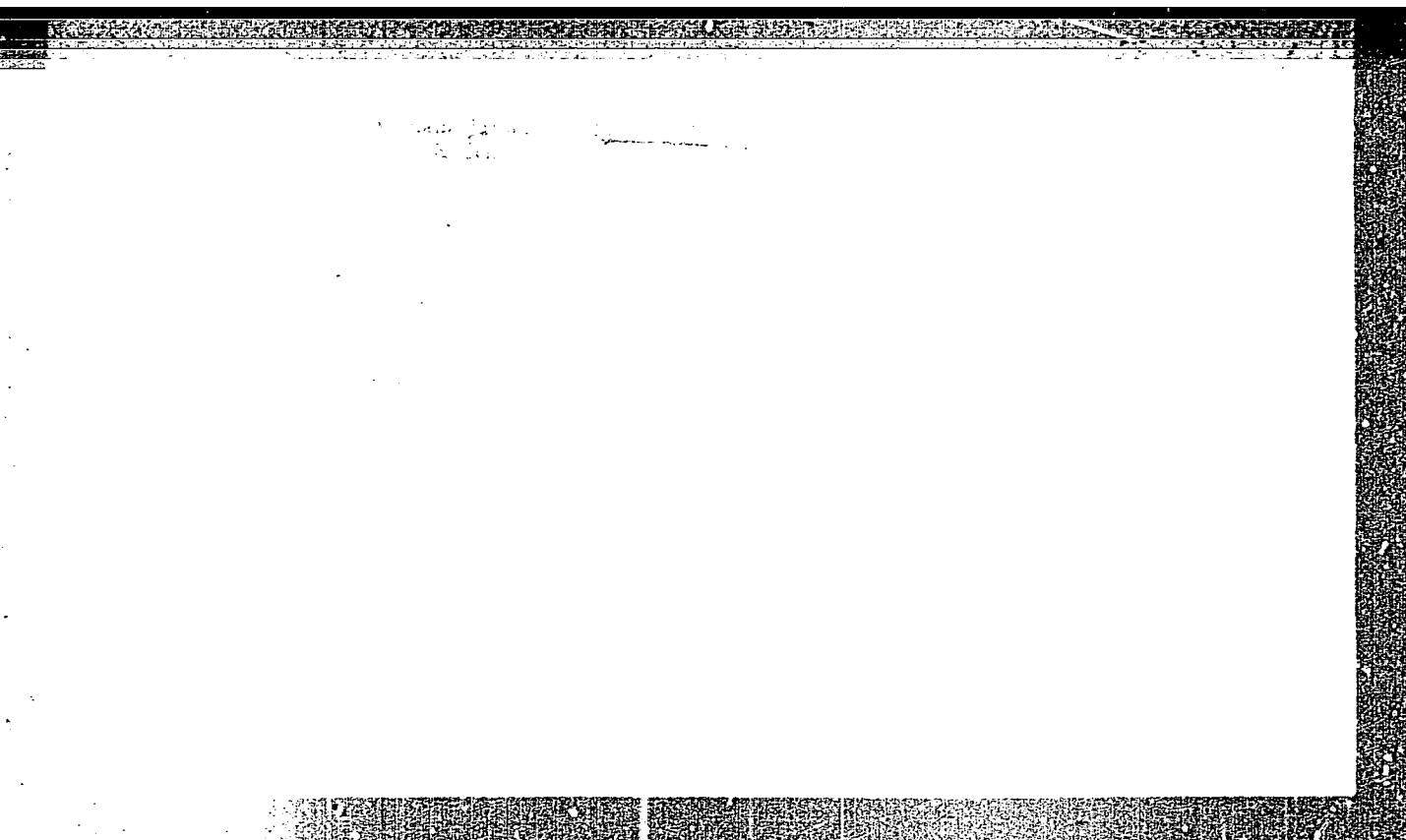
"Continuous random decision processes controlled by experience. In English."

p.43 (Vol. 42, 1956, Prague, Czechoslovakia)

Monthly Index of East European Accession (EEAI) LC, Vol. 7, No. 8, August 1958

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. Driml, M.

16(2)

PHASE I BOOK EXPLOITATION CZECH/2556

Conference on Information Theory, Statistical Decision Functions,  
Random Processes. 1st, Liblice, 1956.

Transactions. Prague, Czechoslovak Academy of Sciences, 1957.  
354 p. 1,000 copies printed.

Sponsoring Agency: Československá Akademie Věd. Sekce Technická.

Reviewers: Václav Dupač and Miloslav Jiřina; Scientific Ed.:  
Jaroslav Kožešník, Corresponding Member, Czechoslovak Academy of  
Sciences; Resp. Ed.: Ludek Böhm; Tech. Ed.: František  
Končický.

PURPOSE: This book is intended for specialists interested in in-  
formation theory and related subjects.

COVERAGE The book contains papers read at the First Prague Con-  
ference on Information Theory, Statistical Decision Functions,  
and Random Processes, held on November 28 - 30, 1956. The Con-

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Conference on Information Theory (Cont.)

CZECH/2556

ference was sponsored by the Czechoslovak Academy of Sciences and organized by the Institute of Radio Engineering and Electronics. The papers discuss various mathematical approaches to the problems of communications: information theory, probabilistic properties of communication, stochastic properties of communication, entropy, transformations of stochastic properties, statistical decision functions, randomized functional analysis, etc. Participants from China, Germany, Poland, Sweden, the United States, and the Soviet Union were present at the Conference. Of the 21 articles in the book, 14 are in English, 4 in French, 2 in German, and 1 in Russian.

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Conference on Information Theory (Cont.)

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Votavová, L. (Czechoslovakia), Theorem on the Extreme of Entropy 293

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and in Statistical Decision 297

AVAILABLE: Library of Congress

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S/208/62/002/003/008/011  
1019/1219

AUTHORS: Driml, M. and Koutskiy, Z. (Prague)

TITLE: Problems of obtaining random numbers with the aid of counters

PERIODICAL: Zhurnal vychislitel'noy matematiki i matematicheskoy fiziki, v. 2, no. 3, 1962, 475-481

TEXT: A very convenient method for obtaining random numbers with the aid of physical equipment starts with the determination of

$$\lim_{n \rightarrow \infty} P \left\{ \omega: \sum_{i=1}^n X(\omega, i) \equiv j \pmod{k} \right\} \text{ for } j = 0, 1, \dots, k-1,$$

where  $\omega$  is an elementary event of some probability space  $(\Omega, S, P)$  and the random quantity  $X(\omega, i)$  takes non-negative integral values. In theory a uniform limit  $1/k$  is approached but in practice this is not realized because of technical imperfections. The authors propose a scheme to remove the influence of these imperfections at the cost of decreased speed of formation of random numbers. Pulses from the source pass through an ideal detector, then through a bistable circuit, a second ideal detector which inverts zeros and one's, and finally reach a counter. Each source produces pulses equal in amplitude; pulses produced by different sources may have different amplitudes; the activity of a source  $i$  can be described by a Poisson process with parameter  $\lambda_i$ ; the sources are stochastically independent; after the recording of a pulse comes a dead period which depends on the state of the counter at the moment of recording.

SUBMITTED: January 27, 1962.

Card 1/1

DREXLER, M.

Esophagogastrostomy in cardiac spasms. Orv. hetil., Budap.  
92 no. 47:1522-1524 25 Nov. 1951. (CML 21:3)

1. Doctor. 2. Third Surgical Clinic (Director -- Prof. B. V. Petrovskij), Budapest Medical University.

DREXLER, M.

"We should execute completely the decree for the protection of mothers and infants." p. 66 (NEPEGESZSEGUGY, Vol. 34, no. 3, Mar. 1953, Budapest.)

SO: Monthly List of East European Accessions, Vol. 2, #8, Library of Congress, Aug. 1953, Uncl.

~~DEEXLER, Miklos, dr.~~

Trends in control of trachoma. *Nepogesszegy* 36 no.7:  
173-174 July 55.

(TRACHOMA, prevention and control,  
in Hungary.)

DREXLER, Miklos, dr.; MEDGYES, Arpad, dr.; DENES, Zoltanne

On certain problems related to retroperitoneal tumors possibly  
connected with enlarged spleen. Orv.hetil. 101 no.10:342-344  
Mr '60.

1. Budapest Fov. Tan. Balassa Janos Korhaz I. sz. Sebesseti es  
Belgyogyasszati osztaly.

(SPLENOMEGALY compl)

(RETROPERITONEAL SPACE neopl)

DREXLER, Miklos, dr.; JAKAB, Mihaly, dr.; PALOCZ, Istvan, dr.

Surgical, urological and laboratory experiences with intramuscular Chlorocid injections. Magy. Sebész. 15 no.1:38-44 F '62.

1. Fovarosí VIII ker. Tanács VB, Balassa János Kórház (Igazgató-  
főorvos: Dimitrov-Szokodi Daniel dr., az orvostudományok kandidátusa)  
I sz. Sebészeti Osztály (Főorvos: Drexler Miklos dr.) a Kósponti  
Laboratórium (Főorvos: Jakab Mihaly dr.) és az Urológiai Szakrendelő  
(Főorvos: Palocs Istvan dr. az orvostudományok kandidátusa) közleménye.

(CHLORAMPHENICOL ther)

HUNGARY

BALAS, Dr Attila; DREXLER, Miklos Dr; RATKAI, Dr Istvan; [Affiliation not given]

"Injury to the Diaphragm and Resulting Incarceration"

Budapest, Magyar Sebeszet, Vol 19, No 5, Oct 66; pp 282-288.

Abstract: Authors discuss their experiences acquired in connection with the surgical treatment of six diaphragm injuries or incarcerations of different etiology. Although the rupture of the diaphragm requires the intervention of considerable force, such a rupture may be brought about in old age also by a relatively small force. A special group of the so-called injuries is made up of damages in which the diaphragm is destroyed as a result of pus formation, or is injured during surgical intervention. The best treatment of the syndrome is offered by surgery, while thoracic penetration offers the best method of exploring the condition. 26 References, of which 10 Hungarian rest Western.

DREXLER, Oldrich

New techniques in setting up hop poles. Vestnik vyak zemedel 9  
no.6:310-312 '62.

DREXLER, S.

Infections with *Salmonella typhimurium* in premature babies. Cas.lek.  
cesk. 89 no.24:696-698 16 June 50. (CLML 19:4)

1. Of the First Children's Clinic of Prof. J.Svejcar, M.D.

DREXLER, S.

Epidemiological studies on infantile diarrhea and its relation to  
Escherichia coli 0111 B 4. Pediat. listy, Praha 8 no.2:85-86 Apr 1953.  
(CIML 25:1)

1. Of the First Pediatric Clinic (Head--Prof. J. Svejcar, M.D.), Prague.

10-5

DERKLER, S., Dr.; STASTNA, J., Dr.

Clinical and laboratory experience with chloramphenicol of  
Czechoslovak production. *Pediat. listy*, Praha 9 no.3:135-137  
May-June 54.

1. I. detska klin.; predn. prof. MUDr J.Svejcar  
(CHLORAMPHENICOL, ther. use  
experience in inf. & child.)

*DREXLER*

SVEJCAR, J., Prof. MUDr; DREXLER, S., MUDr

Thrush anginas. Prakt. lek., Praha 34 no.19:439 5 Oct 54.

1. I. detska klinika K.U. v Praze, prednosta prof. MUDr. Svejcar  
(THRUSH, in infant and child  
diag.& etiol.)

STASTNA, J., MUDr.; DREXLER, S., MUDr.; HNATEK, J., MUDr.

Epidemiology of thrush at a maternity ward. Cesk. pediat. 11 no.  
7:512-515 July 56.

1. Z I. detske kliniky Karlovy University v Praze, predn. prof.  
MUDr. J. Svejcar.

(THRUSH, epidemiology,  
epidemic in maternity ward (Cs))

DREXLER, Z.

Alpine road connections.

P. 50. (BUDOWNICTWO PRZEMYSLOWE) (Warszawa, Poland) Vol. 13, no. 1, Jan. 1958

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, 1958

L 38593-66	EMP(v)/EMP(t)/ETI/EMP(k)/EMP(h)/EMP(l)	IJP(c)	JD/WN/JG
Acc NR: AP6027705	SOURCE CODE: CZ/0034/66/000/001/0050/0052		
AUTHOR: Biebor, Boleslav (Engineer; Doctor; Candidate of sciences); Drexlorova, Jindra			
ORG: State Research Institute for Materials, Research in Welding, Brno (Statni vyzkumny ustav materialu, Slevarensky vyzkum)			
TITLE: Spectrophotometric analysis of metals using the instrument stilometer FES-1. Determination of small amounts of Cr, Ti, Al, and Mg in the production of ductile cast iron			
SOURCE: Hutnicko listy, no. 1, 1966, 50-52			
TOPIC TAGS: metal analysis, spectrophotometric analysis, cast iron, line spectrum, spectrum analyzer/FES-1 spectrum analyzer			
ABSTRACT: The authors investigated determination of small amounts of metals that could be found in the manufacture of ductile cast iron. Details of the spectrum lines that are used in the analysis of individual metals are given. Calibration curves for the instrument are discussed. Orig. art. has: 8 tables. [JPRS: 34,519]			
SUB CODE: 11, 20 / SUBM DATE: none / ORIG REF: 001			
Card 1/1			

DREYER, A.L.

Study of the growth of the tubular bones in length in an experiment. Ortop., travm. i protez. no.4:63-66 '62. (MIRA 15:5)

1. Iz Leningradskogo instituta travmatologii i ortopedii (dir. - prof. V.S. Valakina).  
(CARTILAGE) (GROWTH)

DREXLER, Zbigniew

New traffic signs in the statute. Motor 11 no.49:4 9 D  
'62.

DREXLER, Zbigniew

Traffic signs in the Polish code. II. Motor 11 no.50/51:25  
16-23 D '62.

**"APPROVED FOR RELEASE: Thursday, July 27, 2000**

**CIA-RDP86-00513R00041121**

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CIA-RDP86-00513R000411210

DREYER, O.M.

Electron microscope method of studying photographic emulsions.  
Trudy Lab. aeromet. 4:133-137 '55. (HLRA 9:2)  
(Electron microscope) (Photographic emulsions)

DREYER, G. M.

The dual mechanism of development reactions. K. S. Lyalikov and G. M. Dreyer. *Doklady Akad. Nauk S.S.S.R.* 105, 607-8 (1965).—The statistical method of kinetic studies of the separate center development (C.A. 50, 84k) was used in an electron-microscope study of the development process. The single Ag crystals grow nonuniformly during chem development, at 1st rapidly along the crystal axis, without any apparent increase in thickness. After some time the longitudinal growth stops, and the thickness increases, at 1st very slowly. Hydroquinone developer reveals the 2 steps particularly sharply, as shown in electron-micrographs after development for 4, 0, and 32 min. A dual nature of the development is suggested, the 1st (rapid) stage consisting in a growth of the crystals by direct reduction of the AgBr in the lattice. In the 2nd (slow) stage, the Ag<sup>+</sup> in soln. is reduced. W. M. Sternberg

Chem  
photo

2

PM

Lab. of Aeronomy, AS USSR

Dreyer, G M.

PLANNING AND INFORMATION 807/7-4-8

Abdullaevskiy SSSR. Laboratory's aeromagnetic survey, tom 8: Materialy VII Vsesoyuznogo aerogeofizicheskogo simpoziuma - 1 deliatsya 1956 g. (Materials of the 7th All-Union Symposium on Aeromagnetic Surveying, 25 November-1 December 1956) Moscow, Geosizobkhizdat, 1959. 300 p. 5,000 copies printed.

24. of Publishing House: V. G. Pilyavskiy, Zhelez. M. I. O. A. Gurevskiy Editorial Commission: N. S. Koll', Corresponding Member, Academy of Sciences USSR, A. A. Leguchev, V. P. Kirovskikh (Moscow, M.), and N. S. Solov'yev.

PURPOSE: This publication is intended for geophysicists, geologists, geographers, and other scientific and technical personnel concerned with aerial photography.

CONTENTS: This issue of the Transactions of the Laboratory of Aerial Survey Methods contains the second part of materials presented at the 7th All-Union Symposium on Aeromagnetic Surveying, which took place in Leningrad, November 25 through December 1, 1956. Articles treat problems dealing with the connection and application of aerial survey methods in geological, geomorphological, and geophysical investigations. Special attention is directed to aerial survey methods in geological and geomorphological mapping and geophysical investigations under different conditions. The results of joint aeromagnetic prospecting and aerial photography are described. References accompany individual articles.

INDEX OF CONTENTS:  
Kuznetsov, A. I. [All-Union Scientific Research Institute of Geophysical Prospecting Methods]. Results of Applying the Aerial Aerogeophysical Combined (Radiometric and Magnetometric) Method of Prospecting 268

Gilov, V. P. [Kashchinskaya Scientific Institute of Geophysics - Scientific Research Institute of Terrestrial Magnetism]. Synthesis [Small-Scale] Map of Magnetic Anomalies and Methods of Tying the Aeromagnetic-Survey Data to Absolute [Reference] Values of the Magnetic Field Intensity 261

Ryazov, V. M. [All-Union Scientific Research Institute of Geophysical Prospecting Methods]. Techniques and Results of a Regional Aeromagnetic Survey of the Northwestern Russian Plateau [In the Study of Local Magnetic Anomalies] Using Topographic Coordinates Methods [Aerial Photo-Data] 267

Belin, P. A. [Soviet Kibernetika - Siberian Trust for Oil Prospecting and Geophysical Methods]. Aeromagnetic Surveys of Siberia and Their Utilization for Geological Purposes 272

Ryazov, V. M. [Kashchinskaya Scientific Institute of Geophysical Prospecting Methods]. Results of Integrated Aerogeophysical Exploration in Certain Regions of Kazakhstan 277

Molotov, O. B. [All-Union Scientific-Research Institute of Geophysical Prospecting Methods]. Results from the Aeromagnetic Survey of Chagayn Region 280

Vorob'yev, N. G. [Kashchinskaya Scientific Institute of Geophysical Prospecting Methods]. Preliminary Results of the Aeromagnetic Survey in the Eastern Part of Turkmenistan Carried Out in Connection With the Exploration of Oil-Bearing Structures 289

Sokolov, V. I. [All-Union Scientific-Research Institute of Geophysical Prospecting Methods]. Application of Aerial-Survey Methods and Equipment to Geophysical Oil Prospecting 293

Pilyavskiy, V. G., G. M. Dreyer, and A. A. Solov'yev [Laboratory of Aerial-Survey Methods, Institute of Geophysics, USSR]. An Integrated (Combined) Use of Aerial Photography and Aerogeophysical Prospecting in Geological Investigations 296

AVAILABILITY: Library of Congress  
Card 10/10  
22/Jan/66  
7-58-60

DREYER, N. L.

D-40 DREYER, N. L. Katalog radioapparatury grazhdanskoy svyazi  
(Catalogue of radio equipment for civil communication).  
Moscow, Ministerstvo promyshlennosti sredstv svyazi SSSR,  
Red.-izd. otдел BTI, 1948. 40p. DTC TK 6563.R'; OUMF No. 191-T.

Descriptions and schematic diagrams of the six types of  
radio transmitters applied in the USSR.

DR EYER, N.N.

807/10-59-4-25/29

3(

Authors: Vellichko, A.A., and Mintz, A.A.

Title: The Sixth Conference of Young Scientific Workers of the Institut Geografii AN USSR (Institute of Geography AS USSR)

Periodical: Izvestiya Akademii nauk SSSR, Seriya Geograficheskaya, 1959, No. 4, pp 152-154 (USSR)

Abstract: The article covers the Sixth Conference of Young Scientific Workers of the Institut Geografii AN USSR which took place in Leningrad in March 1958. It is noted by the following scientific workers: I. I. Glikh reported on "Some Genetic Regularities in the Distribution of Atmospheric Precipitation", V. A. Kotlyakov and G. I. Yartsev commented on structural methods in snow and ice research in the Antarctic region; L. A. Mityagin spoke on the connection between the relief and hydrographical network and the latest tectonic movements in the Northern trans-Ural area. G. P. Orlovskaya evaluated the evaporation according to the water balance method over the African continent; A. A. Litvinova discussed the problem of the Gulf of Kara-Bogazköl; I. M. Lebedev reported on the water balance on the impact of solar radiation on the snow cover melting in the Trans-Volga region; A. V. Jakimov spoke on snow radiation near the Ekibastuz Weather Station; Ye. Ye. Guregova lectured on snow conditions in the mountains of Central Caucasus; M. A. Orlov reported on his new method to measure the amount of snow carried by winds, whereby snow-flakes are recorded by a photoelectric device; M. A. Baumer, M. I. Lashin and A. A. Kulev spoke on the heat balance observations near Khatanga in the Laptev Sea; A. A. Scientific Station near Khatanga; M. A. Kulev spoke on the water discharge and soil without the influence of the water discharge; I. N. Stashinskaya lectured on how to calculate the annual spring water discharge in the Yenisey and Lena rivers according to the method of Z. I. Stribnykh; E. V. Nikolayeva lectured on sea levels of the Caspian sea during the V-XII centuries and Z. I. Martynova on the lake levels in the Turgay depression during 1899-1958; L. I. Lytkina reported on the rivers and lakes of the Vitiin plateau; A. V. Ryzkov discussed Pliocene forms of relief in the river valleys of the Kama basin; A. A. Vellichko elucidated on loess deposits in the center of the Kamasian Plain; A. A. Vellichko lectured on "Tectonic evolution of Terekstan" and L. Ye. Yermolenko on "Classification of Terekstan in Central Caucasus"; A. G. Shklyar gave a Geobotanic survey of the Central Ural; A. V. Mintz lectured on the division of the Trans-Ural wood-and-steppe area into single relief types;

Card 1/5

Card 2/5

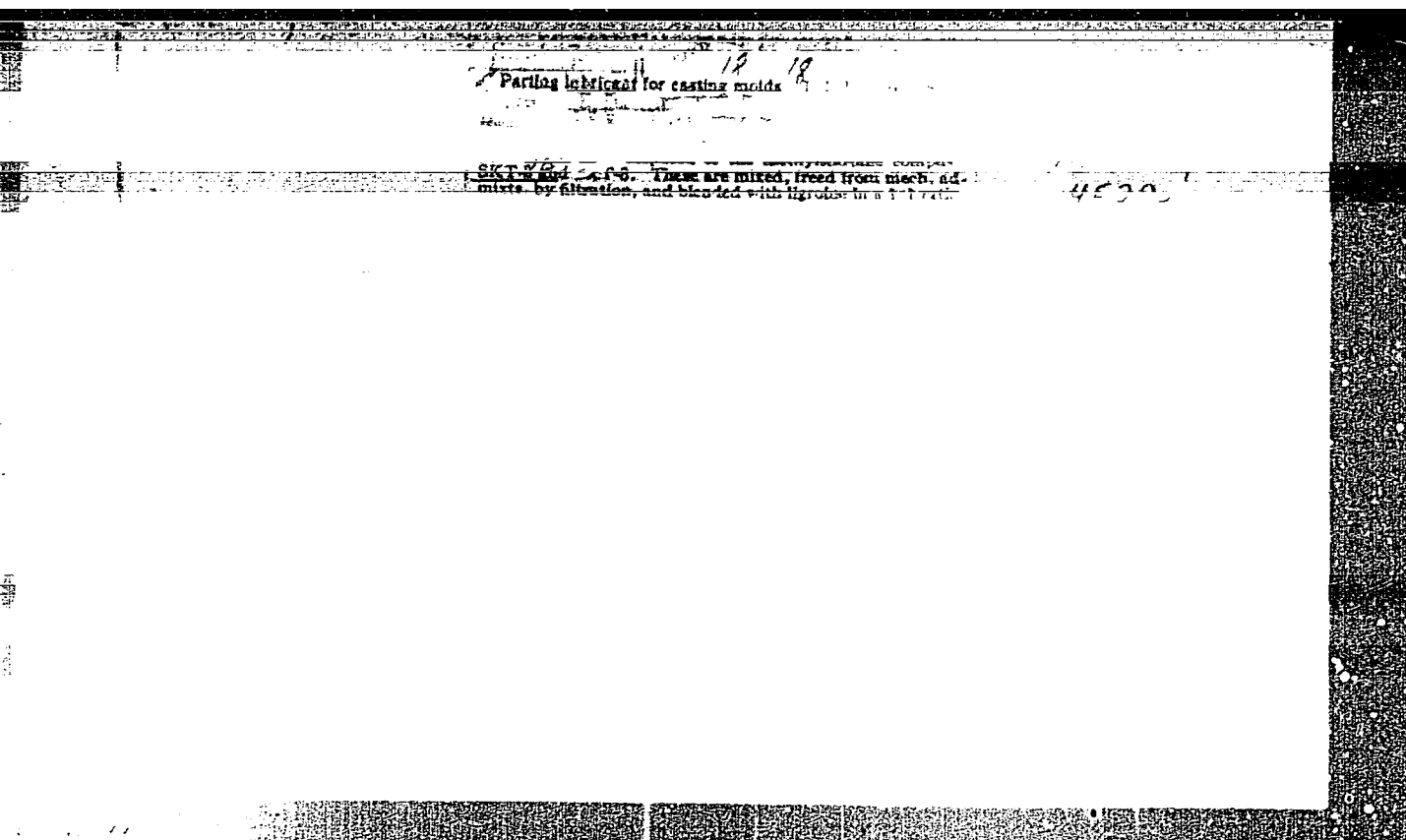
Card 3/5

[illegible]

V. Ye. Gontcharenko explained how the hollows on the left bank of the Kryva river near Pavlodar originated. V. I. Zhukovskiy gave a short physical and geomorphological sketch of the Krasnaya river valley. A member reported on her work on the geomorphological analysis of a map of morphogenetic ground forms made by aerial photography in the Buryatkhya ASSR. N. A. Shchegolev discussed ralle origin in the southern part of the Isur and Zeya rivers area. V. P. Shchegolev compared morphological and morphometric methods to measure roll coefficients. G. M. Shubinova and V. I. Kuznetsov gave a zoogeographical survey on birds in the central part of the Irkutskaya ASSR. Ye. S. Smirnov reported on the development of the Kamskaya individual and morphometry discussed data on the distribution and productivity of the fish in the economy of the Kamskaya national. Ye. A. Zhukovskiy reported on the lumber industry in the Arkhangelsk kraye oblast and G. M. Kozlovskiy khromicheskii rayon (Gor'kiy Economic District) respectively. M. P. Shchukina and G. M. Kozlovskiy lectured on the physical traits, population, and economy of the Land Baden-Wuerttemberg, West Germany. The conference was also attended by representatives of the Novosibirsk gosudarstvennyy universitet (Novosibirsk State University), Federal'nyy institut prirodoznanii (Central Institute of Zoology), Institut matematicheskoy fiziki (Institute of Mathematical Physics), and Gosstatizna (State Statistical Research AS USSR), and other institutes of the following senior workers of the Institute of Geography as USSR took part in the discussions: A. P. Bozhko, N. B. Dmitriyevskiy, L. P. Dolgikh, A. G. Kostanov, M. P. Dmitriyevskiy, M. I. Levich, S. P. Rykmanov, M. P. Stribnyy, B. I. Fedorovich, and others.

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128-58-6-10/17

AUTHORS: *DREYER, S.S.*  
Lupyrev, I.I., Candidate of Technical Sciences, Dreyer, S.S.  
Engineer, Stavitskiy, I.K., Engineer, Karlin A.V., Engineer,  
Kryukovskaya, Z.M., Engineer

TITLE: Separating Lubricants for Shell Molds (Razdelitel'nyye smazki  
dlya obolochkovykh form)

PERIODICAL: Liteynoye Proizvodstvo, 1958, Nr 6, p 27 (USSR)

ABSTRACT: This article contains information on "SKT-2" and "SKT-3" lu-  
bricants for shell molds. These lubricants are based on  
methylsilicon vat residues, and are 10 to 12 times cheaper  
than the ethylsilicon liquid No. 5 (TU MKhP 2416-50), which  
previously was extensively used for shell molds. The new lu-  
bricants are also more stable at high temperatures and cause no  
scale on the surface of mold boards. They were developed by  
the authors.

AVAILABLE: Library of Congress

Card 1/1 1. Lubricants-Applications 2. Synthetic lubricants-Applications

DREYERMAN, Ya.

Sunday paradoxes. Okhr. truda i sots. strakh. no.4:20-21  
Ap '63. (MIRA 16:4)

1. Zaveduyushchiy punktom zdavookhraneniya Yaroslavskogo  
elektromashinostroitel'nogo zavoda.

(Labor and laboring classes—Medical care)

DREYERMAN, Ya.

This is within the reach of everybody. Okhr. truda i sots. strakh.  
6 no.10:18-19 Q. '63. (MIRA 16:11)

1. Zaveduyushchiy punktom zdravookhraneniya Yaroslavskogo  
elektromashinostroitel'nogo zavoda.

DREYERMAN, Ya.I. (Yaroslavl', M.Tolga, d.6, kv.18)

In opposition to oversimplification in the development of I.P.  
Pavlov's theories. Vest.khir. 79 no.105-107 J1 '57. (MIRA 10:10)  
(SURGERY) (NERVOUS SYSTEM)

DREYERMAN, Ya.I. (Yarpalavl')

Methodological problems in the clinical determination of types of  
higher nervous activity in man. Terap.arkh. 30 no.2:60-64 F '58.  
(CENTRAL NERVOUS SYSTEM, physiology, (MIRA 11:4)  
higher nervous activity, clin. determ. (Rus)

DREYFUS, Zh.K.; SHAPIRA, G.; SHAPIRA, F.; DEMO, Zh.

Studies on the biochemical aspects of human muscle diseases [with summary in English]. Vop.med.khim. 4 no.2:97-108 Mr-Apr '58.  
(MIRA 11:5)

1. Laboratoriya meditsinskoy i biologicheskoy khimii Gospitalya dlya bol'nykh detey (Parish)  
(MUSCLES, diseases  
biochem. analysis of blood & musc. tissue in various  
dis. (Rus)

RAPIS, Ye.G.; DREYLING, E.I.

Glaucoma and influenza. Oft.zhur. 15 no.4:245-247 '60. (MIRA 13:11)

1. Iz kafedry glaznykh bolezney (zav. - prof. A.A.Bugayev)  
Omskogo neditzinskogo instituta.  
(GLAUCOMA)  
(INFLUENZA)

DREYMAN, E.Ya.; DMITRIYEVA, V.A.; KAMZOLOVA, S.G.; SHABEROVA, Z.A.;  
PROKOF'YEV, M.A.

Synthesis of o-aminoacyl derivatives of adenosine and study of  
their properties. Zhur.ob.khim. 31 no.12:3899-3905 D '61.

(MIRA 15:2)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.  
(Adenosine)

DREYMANAS, A. I., Cand Phys-Math Sci (diss) -- "Four-parameter diversity of straight lines in four-dimensional projective space". Vil'nyus, 1959. 8 pp (Min Higher and Inter Spec Educ, Vil'nyus State U im V. Kapsukas), 250 copies (KL, No 10, 1960, 125)

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... subjected to hydrolysis and ...  
... of ... of this type is induced by ...

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L 18447-66 EWT(m)/EWA(d)/EWP(j)/T RM

ACC NR: AP6002551

(A)

SOURCE CODE: UR/0286/65/000/023/0047/0047

AUTHORS: Laukevits, Ya. Ya.; May, L. A.; Dreymanis, Ya. A.; Tutere, A. P.;  
Pevzner, L. Yu.; Vayvad, A. Ya.; Katkevich, A. K.

ORG: none

TITLE: Method for producing surface-active silicone polymers. Class 39,  
No. 176683/2 (announced by Institute of Chemistry, Academy of Sciences Latvian SSR  
(Institut khimii Akademii nauk Latvyskoy SSR); Central Structural Bureau For  
Administration of the Chemical and Silicate-Ceramic Industry Sovnarkhoz, Latvian  
SSR (Tsentral'noye konstruktorskoye byuro upravleniya khimicheskoy i silikatno-  
keramicheskoy promyshlennosti sovnarkhoza Latvyskoy SSR))

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 23, 1965, 47

TOPIC TAGS: silicone, surface active agent, polymerization, esterification

ABSTRACT: This Author Certificate presents a method for producing surface-active  
silicone polymers by esterification with alcohols and subsequent hydrolysis and  
thermal condensation polymerisation of a mixture of silicone monomers. To extend

Card 1/2

UDC: 678 84:66.093.8

L 18447-66  
ACC NR: AP6002551

and decrease the cost of the raw basis, a mixture of trimethylchlorosilane with silicon tetrachloride is taken as the silicone monomer. The esterification is produced with alcohols having more than three carbon atoms.

SUB CODE: 07, 11/ SUBM DATE: 02Jul64

Card 2/2 *mgs*

DREYNES, M. A.

✓ 1954. Drenes, M. A., and Alzenstet, N. D., Possibility of nomography of highest degree of accuracy (in Russian). *Doklady Akad. Nauk SSSR (N.S.)* 95, 6, 1137-1140, Apr. 1954.

62  
①  $z = z(x, y)$  is nomographic at scale points  $(x_0, y_0, z_0)$  if (1) point  $z_0$  of scale  $z$ , point  $y_0$  of scale  $y$ , and point  $x_0$  of scale  $x$  are collinear (2) no two points of  $(x_0, y_0, z_0)$  coincide; and (3) the solution line of the nomograph is not in the osculating plane of the answer scale,  $z$ .

Let scale functions  $u = X_1(x), v = X_2(x), u = Y_1(y), v = Y_2(y), u = Z_1(z), v = Z_2(z)$  give scales for  $x, y, z$ . At  $(x_0, y_0, z_0)$  the value of the determinant which has rows  $X_1, X_2, 1; Y_1, Y_2, 1$ , and  $Z_1, Z_2, 1$  is zero. Put scale functions  $X_i = a_{i1}x^i, X_2 = a_{i2}x^i$ , etc., with  $a_{i1}, a_{i2}, \dots$ , undetermined coefficients. Let  $r$  be the radius vector of the neighborhood of  $z_0$ . Function  $z = z(x, y)$  is nomographic in the neighborhood of  $z_0$  to accuracy of  $O(r^k)$ , ( $k \leq 4$ ) when coefficients  $a_{i1}, a_{i2}, \dots$  are constrained by the determinantal equation row  $a_{i1}x^i, a_{i2}x^i, 1; b_{i1}y^i, b_{i2}y^i, 1$ , and  $c_{i1}z^i, c_{i2}z^i, 1$ ; equal infinitesimal  $O(r^k)$ .

K. D. Saunders, USA

AKOPYAN, Y. Kh.; GROSS, Ye. F.; DREYNGOLD, F. I.; NOVIKOV, B. V.; TITOV, R. A.;  
SHERKHMAMETEV, R. I.

"The investigation by the photoconductivity and luminescence method of the exciton states near the edge and in the depth of the fundamental absorption in crystals."

paper submitted for Intl Conf on Physics of Semiconductors, Paris, 19-24 Jul 64.

Leningrad State Univ.

DREYSHEV, I. I.

SUBJECT: USSR/Rotary Kilns 101-4-4/13

AUTHORS: Dreyshev, I.I., Engineer, Golbrodo, V.M., Engineer

TITLE: Advantages in the Use of Light-Weight Linings in Rotary Kilns  
(O preimushchestvakh primeneniya legkovesnykh futerovok vo  
vraashchayushchikhsya pechakh)

PERIODICAL: Tsement , 1957, # 4, pp 19-20 (USSR)

ABSTRACT: The weight of lining materials in rotary kilns constitutes  
32-47 % of the total weight. Light-weight refractory linings  
not exceeding 31% of the total weight of the furnace, would  
result in considerable savings in the metal used for the con-  
struction of supports, in lower fuel consumption due to lower  
caloric conductibility, and lower installation cost.

The problem of utilization of light-weight refractory linings  
should be taken up by the appropriate scientific research in-  
stitutes.

High quality light weight firebricks are being produced in the  
USSR in sufficient quantities.

Card 1/2 The application of light-weight fireproof linings will be stu-

101-4-4/13

TITLE: Advantages in the Use of Light Weight-Linings in Rotary Kilns  
(O preimushchestvakh primeneniya legkovesnykh futerovok vo  
vrashchayushchikhsya pechakh)

ded by GIPROTSSEMENT, during 1957-58, in order to establish the  
most favorable lining thickness.

The article contains 2 tables.

INSTITUTION: All Union Institute for Refractory Lining

PRESENTED BY:

SUBMITTED:

AVAILABLE: At the Library of Congress

Card 2/2

KOZHEVNIKOV, I.L.; BASHLYKOVA, Ye.P.; DREYSIN, A.G.

Lower Cretaceous sediments of the trans-Ural syrts. Trudy SGPK  
no.2:170-182 '61. (MIRA 14:11)  
(Obshchiy Syrt--Geology, Stratigraphic)

BASHLYKOVA, Ye.P.; DREYSIN, A.G.; KOZHEVNIKOV, I.I.; KUZNETSOVA,  
A.M.

Lower Cretaceous sediments of Obshchiy Syrt and their  
division based on the general correlation of electric logs  
of boroholes and macro- and microfauna. Trudy VNIIGI  
no.29.35-48 vol.3 '61. (MIRA 14:9)  
(Obshchiy Syrt--Geology, Stratigraphic)

DREYSIN, A.G.; LIKHOLATNIKOV, V.M.

Some recent data on the prospects for finding gas and oil in the Mesozoic sediments in the central sector of the Volga-Ural interfluve. Neftegaz. geol. i geofiz. no.7:27-39 '64.

(MIRA 17:8)

1. Trest "Soyuzburgaz".

*DRYSEN, G. I.*  
VANYUKOVA, O.P.; GOROSHKINA, N.A.; DRYSEN, G.I.; LUK'YANOVA, Ye.D.;  
RYATOVA, G.S.; SAMOYLOVA, L.G.; DARKOV, G.V.; LEBEDEV, A., tekhn.red.

[State budgets of the Union republics in the fifth five-year plan;  
a statistical manual] Gosudarstvennye biudzety soiusnykh respublik  
v piatoi piatiletke; statisticheskii sbornik. Moskva, Gosfinizdat,  
1957. 174 p. (MIRA 10:12)

1. Russia (1923- U.S.S.R.) Byudshetnoye upravleniye.  
(Budget)

VANYUKOVA, O.P.; ~~DREYSIN, G.I.~~; LUK'YANOVA, Ye.D.; RYATOVA, G.S.; SAMOYLOVA,  
L.G.; DARKOV, G.V.; IL'VOVSKIY, S., otv.red.; ~~LEBEDEV~~, A., tekhn.red.

[Expenditures on social and cultural measures in the state budget  
of the U.S.S.R.; a statistical manual] Raskhody na sotsial'no-  
kul'turnye meropriyatiya po gosudarstvennomu byudzhetu SSSR;  
statisticheskii sbornik. Moskva, Gosfinizdat, 1958. 90 p.

(MIRA 12:1)

1. Russia (1923- U.S.S.R.) Byudzhetnoye upravleniye. 2. Otdel  
finansovo-ekonomicheskoy statistiki Byudzhetnogo upravleniya Mini-  
sterstva finansov SSSR (for Vanyukova, Dreysin, Luk'yanova, Ryatova,  
Samoylova, Darkov).

(Budget)

DARKOV, G.V.. Prinsipali uchastiye: GORCHEV, I.I.; DREYSIN, G.I.; DRABENOK, P.D.; LUK'YANOVA, Ye.D.; PASEKOVA, V.D.; SYATOVA, G.S.; FILIPPOVA, A.M.. IL'VOVSKIY, S.Z., otv.red.; ROZHCHINA, L., red.; TELEGINA, T., tekhn.red.

[Local budgets of the U.S.S.R.; statistical collection] Mestnye byudzhety SSSR; statisticheskii sbornik. Moskva, Gosfinizdat, 1960. 326 p.  
(MIRA 13:7)

1. Russia (1923- U.S.S.R.) Byudzhethnoye upravleniye.  
(Budget--Statistics)

VANYUKOVA, O.P.; DREYSIN, G.I.; LUK'YANOVA, Ye.D.; RYATOVA, G.S.;  
SAMOYLOVA, L.G.; ~~PO~~VOVSKIY, S., otv. red.; LEEBEDEV, A.,  
tekhn. red.

[Expenditures for social and cultural measures from the  
state budget of the U.S.S.R.; statistical abstract] Ras-  
khody na sotsial'no-kul'turnye meropriyatia po gosudarstven-  
nomu biudzhetu SSSR; statisticheskii sbornik. Moskva, Gos-  
finizdat, 1958. 90 p. (MIRA 16:7)

1. Russia (1923- U.S.S.R.) Byudzhetnoye upravleniye. 2. Ot-  
del finansovo-ekonomicheskoy statistiki Byudzhetnogo uprav-  
leniya Ministerstva finansov SSSR (for Vanyukova, Dreysin,  
Luk'yanova, Ryatova, Samoylova). (Budget).

DREYTSER, A. G.

"Consultation in Cases of Gunshot wounds of the Eye." Thesis for degree of Dr. Medical Science. Sub 4 Dec 50, First Moscow Order of Lenin Medical Inst.

Summary 71, 4 Sep 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1950. From Vechernyaya Moskva, Jan-Dec 1950.

PILULIK, L.G.; DREYTSER, F.F.

Shift in the electron spectra of phthalimides in solutions as  
affected by temperature. Dokl. AN BSSR 5 no. 2:57-60 F '61.  
(MIRA 14:2)

1. Institut fiziki AN BSSR. Predstavleno akademikom AN BSSR  
A.N. Sevchenko.  
(Phthalimide—Spectra)

AUTHORS: Dreytser, F. F. and Pikulik, L. G.

S/250/62/006/009/002/004  
1046/1246

TITLE: Theoretical analysis of the temperature shift of electron spectra of complex molecules in solutions

PERIODICAL: Akademiya nauk BSSR. Doklady, v. 6, no. 9, 1962, 560-562

TEXT: McRae's theoretical conclusions concerning the effect of solvents on the electron spectra are complemented with expressions allowing for the interaction at various temperatures between the medium and a fluorescing molecule. Contrary to the theoretical results, the dependence

$$\nu_{0-0}^a - \nu_{0-0}^f = f \left( \frac{\tau}{\tau + \tau_r} \right), \quad (6)$$

where  $\nu_{0-0}^a, \nu_{0-0}^f$  — the electron transition frequencies in absorption and emission spectra, respectively,  $\tau$  — the average life-time of an excited molecule,  $\tau_r$  — relaxation time of a polar molecule, is not linear in the general case, probably due to the failure to take the temperature dependence of  $\epsilon$  and  $n$  into account. There is 1 figure

ASSOCIATION: Institut fiziki AN BSSR (Institute of Physics, AS BSSR)

PRESENTED: By B. I. Stepanov, Academician, AS BSSR

SUBMITTED: February 17, 1962

Card 1/1



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ACCESSION NO: AP4048850

APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R000411210

MIKHAYLOV, A.I.; KALININ, E.K.; DREYTSER, G.A.

Study of heat transfer in longitudinal air flow past a staggered bank of tubes. Inzh.-fiz. zhur. 10 no.1:22-25 Ja '66.

(MIRA 19:2)

1. Aviatsionnyy institut im. Sergo Ordzhonikidze, Moskva. Submitted March 29, 1965.

ACC NR: AP7002879

(A,N)

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TITLE: Convective heat exchange in a tube under pulsations of a gaseous heat-carrying medium with frequency corresponding to the second resonant harmonic

SOURCE: AN BSSR. Vestsi. Seryya fizika-tekhnichnykh navuk, no. 4, 1966, 32-43

TOPIC TAGS: heat exchanger, heat transfer, heat carrier, thermodynamic calculation, gas flow

ABSTRACT: In view of the limited number of published theoretical and experimental papers devoted to heat exchange under a pulsating flow, such as would be produced when the heat-carrying medium is pumped with a compressor, the authors investigated the influence of velocity (or pressure) pulsations on heat transfer at high frequencies, when the influence of the pulsations of the local heat transfer coefficient is expected to be due essentially to changes in the distribution of the turbulent conductivity along the radius in a given section of the channel. The tests were made in an acoustically closed tube at a frequency corresponding to the second resonant harmonic, when a complete standing wave subtended the length of the tube. A criterial relation is derived for the relative heat transfer in such a case in terms of the Nusselt, Reynolds, and Prandtl numbers and the flow parameters. The tests were made

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with air in a specially calibrated stainless-steel tube heated with low-voltage alternating current. Plots are presented of the distribution of the outside wall temperature and of the gas temperature along the tube, the distribution of the relative heat transfer along the tube for various pressure ratios and various Reynolds numbers, the dependence of the relative heat transfer at the nodes and anti-nodes and of the speed of the standing wave on the relative harmonic, and the distribution of the heat transfer along the standing wave. The results show that the resonant vibrations of the heat-carrying medium lead to an appreciable increase in the heat transfer, by a factor 2 - 2.3 over the stationary value. Orig. art. has: 6 figures and 21 formulas.

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TITLE: Intensification of heat exchange in a bundle of tubes with transverse ribs placed in a longitudinally flowing stream

SOURCE: AN BSSR. Vestsi. Seryya fizika-tekhnichnykh navuk, no. 2, 1966, 65-70

TOPIC TAGS: turbulent flow, turbulent heat transfer, heat exchange, hydraulic resistance 2/

ABSTRACT: After explaining the reason why earlier investigations of longitudinal flow around bundles of tubes were not adequate, the authors report an investigation of the possibility of intensifying heat exchange in a typical array of tubes frequently used in heat-exchange apparatus. The tubes investigated were provided with fins. The outside diameter of the tubes was 12.09 mm, and the fins were made of 1 mm wire spaced approximately 36 mm apart. The bundle consisted of 7 tubes (Fig. 1), of which the central one was heated with ac, and the heat was transferred to the other tubes through longitudinally flowing water. The distance between tubes was equal to 1.5 the tube diameter. Plots of the experimentally obtained heat-transfer coefficients and hydraulic-resistance coefficients are presented and it is concluded that turbulization results in an increase of about 40 - 50% in heat transfer. The effect of different factors on the results are briefly discussed. The estimated reduction in the weight and volume of the tube bundle through the use of turbulence is about 25%.

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